

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 81-44

WATER RECLAMATION REQUIREMENTS FOR:

NAPA SANITATION DISTRICT,
NAPA COUNTY AIRPORT AND
TONY PILOTTI, NAPA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter Board) finds that:

1. Napa Sanitation District (hereinafter producer) together with Napa County Airport and Tony Pilotti (hereinafter users), submitted a Report of Waste Discharge, dated April 10, 1981.
2. The producer proposes to transport effluent from its oxidation pond number 2 during the dry period of the year through a pipeline to an adjacent irrigation site. This sixty acre site, located at the northern end of the Napa County Airport, is proposed to be irrigated with the pond effluent for an alfalfa crop. The areas to be irrigated are shown on the attached map which is hereby made a part of this Order.
3. The site proposed for irrigation with reclaimed water is currently owned by Napa County and leased by Mr. Tony Pilotti for agricultural use.
4. Fagan Creek borders along the southwest end of the irrigation site.
5. There is no public access to the irrigation site. There exists one access road with two locked gates, and keys for the locks are kept at all times by the Napa Sanitation District.
6. The producer, as the purveyor of the treated wastewater to the proposed site, will operate and maintain the major transmission facilities.
7. Section 13523 of the California Water Code provides that a Regional Board, after consulting with and receiving the recommendations of the State Department of Public Health, and if it determines such action to be necessary to protect the public health, safety, or welfare, shall prescribe water reclamation requirements for water which is used or proposed to be used as reclaimed water. The use of reclaimed water for the purpose specified in Finding 2 could affect the public health, safety, or welfare, and water reclamation requirements for this use is therefore, necessary in accordance with the Water Code.

8. The Board adopted a Water Quality Control Plan for San Francisco Bay Basin in April 1975. The water quality objectives for reclaimed wastewater, as set forth in the Basin Plan, specify those limits prescribed in Title 17, Section 8025 through 8050, California Administrative Code. These objectives have been superseded by Title 22, Section 60301 - 60357, California Administrative Code.
9. These water reclamation requirements are in conformance with the state-wide Wastewater Reclamation Criteria established by the State Department of Health and are in conformance with the Policy and Action Plan for Water Reclamation adopted by the State Water Resources Control Board in January 1977.
10. The producer prepared an Environmental Impact Report (EIR) dated September 1978 in accordance with the California Environmental Quality Act (Public Resources Code Section 21000 et seq.). Proper irrigation management is expected to mitigate any significant adverse impact.
11. The Board has notified the producer, users, and interested agencies and persons of its intent to prescribe water reclamation requirements for the proposed use listed in finding 2.
12. This Board at a public meeting heard and considered all comments pertaining to this reuse.

IT IS HEREBY ORDERED, that pursuant to the provisions of Division 7 of the California Water Code and regulations adopted thereunder, that the producer and users shall comply with the following:

A. Reclaimed Water Quality Specifications

1. The quality of the reclaimed water, as applied to the irrigation of fodder, fiber and seed crops shall be at least equivalent to that of primary effluent and meet the following limitation at all times:

Settleable Solids - 0.5 milliliter/liter-hour, maximum.

2. The producer shall discontinue the diversion of reclaimed water to the users during any period in which he has reason to believe the limits specified in A.1 are not being met.

B. Reclaimed Water Use Limitations

1. The treatment, distribution, or reuse of reclaimed water shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. Use of reclaimed water shall be limited to the areas specified in Finding 2 of this Order unless written authorization is obtained from the Executive Officer.

3. Reclaimed water shall be applied to the use area in a manner which will prevent public contact with the wastewater.
4. No reclaimed water used for irrigation shall be allowed to escape to areas outside the irrigation area, either by surface flow or airborne spray.
5. A 25 foot setback from Fagan Creek to areas irrigated with reclaimed water shall be maintained at all times.
6. Areas irrigated with reclaimed water shall be clearly identified with posted notices to the public.
7. All equipment, including pumps, piping, valves, etc. which may at any time contain waste shall be adequately and clearly identified with warning signs, and the producer and users shall make all necessary provisions, in addition, to inform the public that the liquid contained is sewage and is unfit for human consumption.
8. No waste shall be applied to the irrigation site when the soil is saturated or during periods of rain.
9. Wastewater irrigation site ponding which could provide a breeding area for mosquitoes shall be prevented.
10. The use of reclaimed water shall not cause degradation of ground water suitable for domestic use or cause any change in a quality parameter which would make the ground water less suitable for irrigation use.
11. The use of reclaimed water on a designated site shall cease immediately when any of the above use limitations is not met.

C. Provisions

1. The producer and users shall file with the Board technical reports on self-monitoring work performed according to detailed specifications as directed by the Executive Officer.
2. The producer and users shall permit the Board or its authorized representatives:
 - a. Entry upon premises in which an effluent source is located or in which any required records are kept.
 - b. Access to copy any records required to be kept under terms and conditions of this Order.
 - c. Inspection of any monitoring equipment or method required by this Order.
 - d. Sampling of any discharge and reclaimed water.

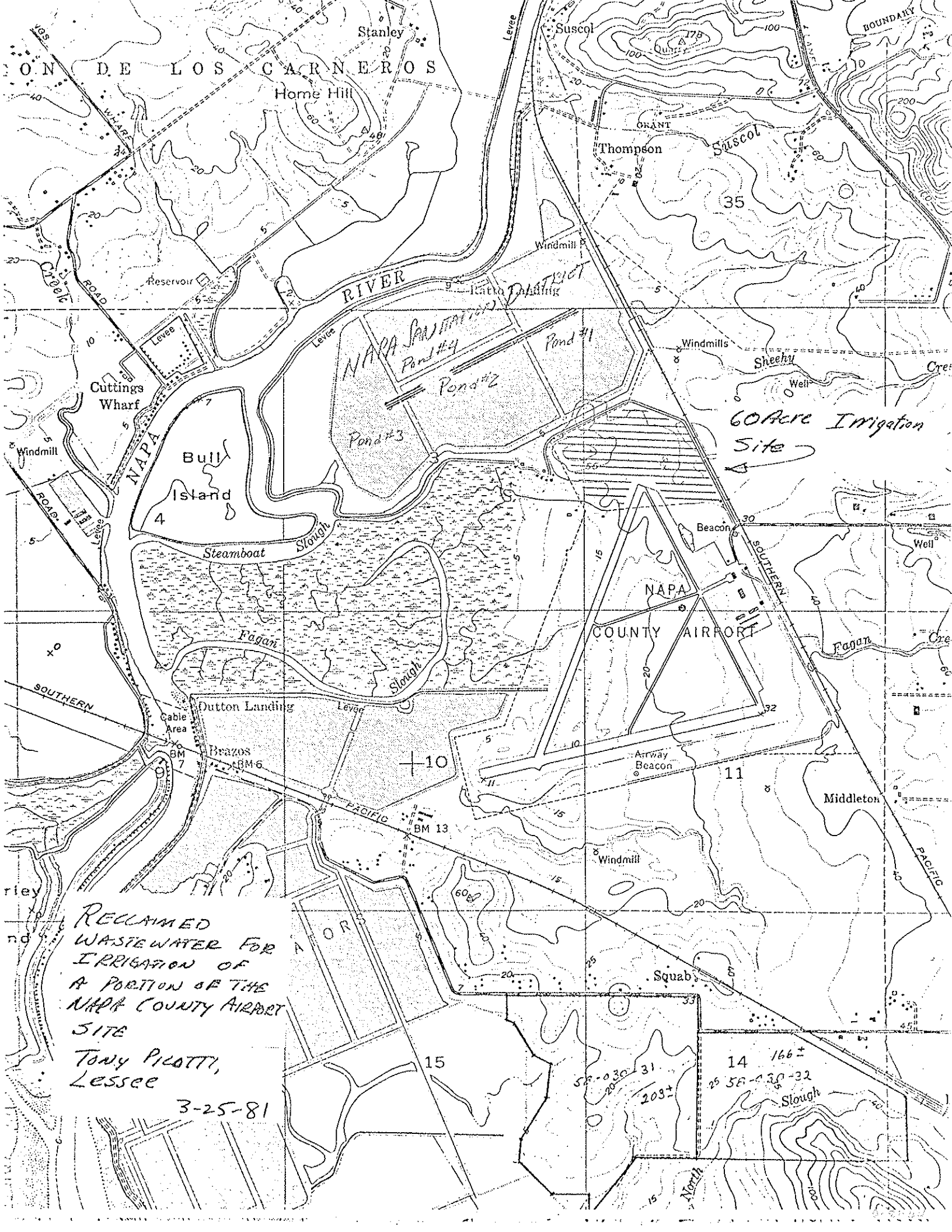
3. The producer and users shall maintain in good working order and operate, as efficiently as possible, any facility or control system installed by the user to achieve compliance with the water reclamation requirements.
4. The producer and users shall file with the Regional Board a report on waste discharge at least 180 days before making any material change or proposed change in the character, location or volume of reuse.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on July 15, 1981.

FRED H. DIERKER
Executive Officer

Attachments:

Map
Self-Monitoring Program



PART B

I. DESCRIPTION OF SAMPLING STATIONS

A. EFFLUENT

<u>Station</u>	<u>Description</u>
E-1	Somewhere in the pipe between the oxidation ponds and the spray irrigation lines.

B. LAND OBSERVATIONS

<u>Station</u>	<u>Description</u>
L-1 thru L-'n'	Located at ends and midpoints of the perimeter levees of the oxidation ponds.
I-1 thru I-n	At points spaced equidistantly around the periphery of the spray irrigation area. Points shall be separated by not more than 1000 feet. A sketch showing the stations shall be submitted with the first-monitoring report and subsequent self-monitoring reports when station location is changed or a violation is noted.

II. SCHEDULE OF SAMPLING, ANALYSIS, AND OBSERVATIONS

- A. This self-monitoring program is applicable when wastewater is reclaimed for irrigation.
- B. The schedule of sampling, analysis, and observations shall be that given as Table I.

III. MODIFICATION OF PART "A" DATED 1/78

- A. Exclusions: Paragraphs C.1, C.3, C.4, C.5.a, C.5.c, D.1, D.2.a, D.3, E.2, E.4, F.1, F.3.e, and F.3.g.

IV. MISCELLANEOUS REPORTING

- A. Users' reports shall be transmitted with the Napa Sanitation District self-monitoring report.
- B. The producer and users shall report:
 - (1) Time, date, and location of user or producer violations;
 - (2) Time and date wastewater service to user was cut off because of violation and then resumed; and

(3) Corrective action taken.

- C. The producer and users shall inspect user areas, monthly, when they are irrigated with wastewater. The inspection report will include the observations required on the self-monitoring report.

I, Fred H. Dierker, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 81-44.
2. Is effective on the date shown below.
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger, and revisions will be ordered by the Executive Officer.

FRED H. DIERKER
Executive Officer

Attachment:

Table I

Attachment A

Effective Date _____

TABLE I
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSES

SAMPLING STATIONS	E-1		L-1 thru L-n	I-1 thru I-n				
TYPE OF SAMPLES								
Flow Rate (mgd)	D	G	O	O				
pH		M						
Sulfides Total & Dissolved (mg/l)		M						
Dissolved Oxygen (mg/l)		M						
Settleable Matter (ml/l-hr)		2W						
All Applicable Standard Observations		2W	2W	(1) W				

LEGEND FOR TABLE

G = Grab sample
O = Observation

D = Daily
W = once each week
2W = every two weeks
M = monthly

(1) Perform the designated observations and file the User's Report in Attachment A as part of the Self-monitoring Report.

Attachment A

User's Self-Monitoring Report

1. Name of User: _____

2. Month and year: _____

3. Circle dates that wastewater was received:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

21 22 23 24 25 26 27 28 29 30 31

4. Total gallons used for the month _____

5. Required Weekly Observations

Fill in the date of the inspection and write "yes"
or "no" for each observation.

Date					
Observed Escape Of Wastewater by surface flow or airborne spray					
Wastewater used on unauthorized areas					
Odor from Wastewater					
Mosquitoes from wastewater ponding					
Employees not informed about wastewater use and precautions to be taken					
Public contact with wastewater					

If any of the observations were yes, a written report containing the following information shall be submitted:

- (1) State time when noted violation(s) was observed and show its location on an enclosed map.
 - (2) Explain cause and extent of violation(s) observed.
 - (3) Describe corrective action taken and the dates compliance was achieved and irrigation was resumed.
6. I certify that the information in this report is true.

Signature of User